

**State of California
The Resources Agency
DEPARTMENT OF WATER RESOURCES
DIVISION OF FLOOD MANAGEMENT**



**2004
PROJECT CHANNEL REPORT**

**INSPECTION OF
FLOOD CONTROL PROJECT CHANNELS ON THE
SACRAMENTO AND SAN JOAQUIN RIVERS AND
THEIR TRIBUTARIES AND THE TRUCKEE RIVER**

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INTRODUCTION

This is a report of the inspection of flood control project channels on the Sacramento, San Joaquin Rivers and their tributaries and the Truckee River. The inspected channels are not confined by project levees. The purpose of the inspection is to identify and report to the constructing authority and the maintaining agency any conditions, which may diminish channel capacity. In general, maintaining the channels to the condition that existed after the completion of the initial construction will preserve their flood flow characteristics. The standard of comparison for the inspection is, therefore, the condition immediately after construction.

The U.S. Army Corps of Engineers and the State of California constructed the improved channels and floodways included herein. The constructing authority issued operation and maintenance manuals to the maintaining agency. Maintaining agencies are local agencies or the State of California. These agencies agreed to be responsible for maintenance at the time of project construction or at a later time. The State conducts periodic inspections of the quality of the maintenance accomplished by the maintaining agencies, and reports its findings to these agencies. The Division of Flood Management, Flood Operations Branch, and Flood Project Inspection Section perform the inspections on behalf of The Reclamation Board.

CHAPTER I

PROJECT CHANNELS INSPECTED ON THE SACRAMENTO RIVER AND TRIBUTARIES

MODOC COUNTY
Maintained by Adin Community Services District

ASH CREEK

On October 22, 2004 an inspection was made of the Ash Creek Channel. Project channel limits begin at the gauging station upstream of State Highway 299 and extend downstream for 1.0 mile. The entire one-mile was inspected. The photos on the following pages are typical of, but do not show all the growth in the channel. Evidence of previously moderate to heavy erosion has occurred along both banks downstream of Ash Street. The log dam located at the downstream boundary was replaced in October 1999 with a concrete dam and fish ladder by the Department of Fish and Game. The district has an excellent maintenance program.

MODOC COUNTY

Ash Creek



Upstream from Main street (Highway 299) towards the gauging station.



**Downstream from Main street (Highway 299)
looking at the Ash street water crossing.**

MODOC COUNTY

Ash Creek



Downstream from Ash street, right bank erosion and tree growth.



Downstream at a sharp left bend moderate erosion on both banks.

MODOC COUNTY

Ash Creek



Downstream from the fish ladder and metal walkway.



**Upstream from the fish ladder and metal walkway.
Constructed October 1999 by the Department of Fish and Game.**

MODOC COUNTY
Maintained by Adin Community Services District

DRY CREEK

On October 22, 2004 an inspection was made of the Dry Creek channel. The project channel begins at the intersection of Adin and Cedar Streets in Adin and extends downstream for 0.2 miles to its confluence with Ash Creek. The entire 0.2 miles was inspected. The views of the channel are primarily at road crossings. The photos on the following pages are typical of, but do not show, all the growth in the channel. There is light to moderate willow growth along the entire reach of the channel.

MODOC COUNTY

Dry Creek



Upstream where Dry Creek meets Ash Creek.



Downstream at Cedar street.

MODOC COUNTY

Dry Creek



Upstream from Main street (Highway 299), moderate growth in channel.



Downstream from Main street (Highway 299), moderate growth in channel.

SACRAMENTO RIVER AND TRIBUTARIES

Maintained by Tehama County

McCLURE CREEK

On October 15, 2004, an inspection was made of the McClure Creek channel. The project channel begins 200 feet upstream of the extension of Fairfield Avenue and extends downstream 1.7 miles to 3,700 feet downstream of Road 99W. The views of the channel are from road intersections or crossings and at random distances measured from upstream of the Road 99W bridge. The photos on the following pages are typical of, but do not show, all of the growth in the channel. The channel is clear, although in some areas berry vines are beginning to encroach into the channel and bamboo is starting to take over. The channel will easily carry the required capacity. Clearing of the entire channel was completed in 1996. Satisfactory maintenance program.

SACRAMENTO RIVER AND TRIBUTARIES

McClure Creek



Upstream at Truckee Avenue.



Downstream from Truckee Avenue.

SACRAMENTO RIVER AND TRIBUTARIES

McClure Creek



Upstream from old Highway 99 bridge.



Downstream from old Highway 99 bridge.

SACRAMENTO RIVER AND TRIBUTARIES

Maintained by Tehama County

SALT CREEK

On October 15, 2004, an inspection was made of the Salt Creek channel. The project channel begins 1.6 miles upstream of the Sacramento River and extends downstream 1.6 miles to Salt Creek's confluence with the Sacramento River. Inspection was limited to breaks in the dense vegetation, measured randomly with the vehicle distance meter. The photos on the following pages are typical of, but do not show all of the growth in the channel. Vegetation on both banks is dense and makes visual inspection difficult. Numerous downed trees and piles of debris in the channel should be removed and the channel should be cleared of vegetal growth before the next flood season. A major wash out area is located at end of Salt Creek road. This is being caused by some of the downed trees that should be removed to prevent further erosion. Little or no maintenance has been performed on this channel for the past several years. Tehama County needs to develop a maintenance program for this channel.

SACRAMENTO RIVER AND TRIBUTARIES

Salt Creek



**Downstream from the end of Patterson Avenue.
Bank vegetation is encroaching on the channel.**



**Upstream from the end of Patterson Avenue.
Showing the dense vegetation in the channel.**

SACRAMENTO RIVER AND TRIBUTARIES

Salt Creek



End of Salt Creek road, approximately 200 feet of erosion along left bank.



End of Salt Creek road, showing cause of washout and logs in channel.

SACRAMENTO RIVER AND TRIBUTARIES

Salt Creek



Upstream approximately 200 feet upstream from the confluence with the Sacramento river.



Logs and dense vegetation at the confluence with the Sacramento River.

SACRAMENTO RIVER AND TRIBUTARIES

Maintained by City of Chico

BIG CHICO CREEK

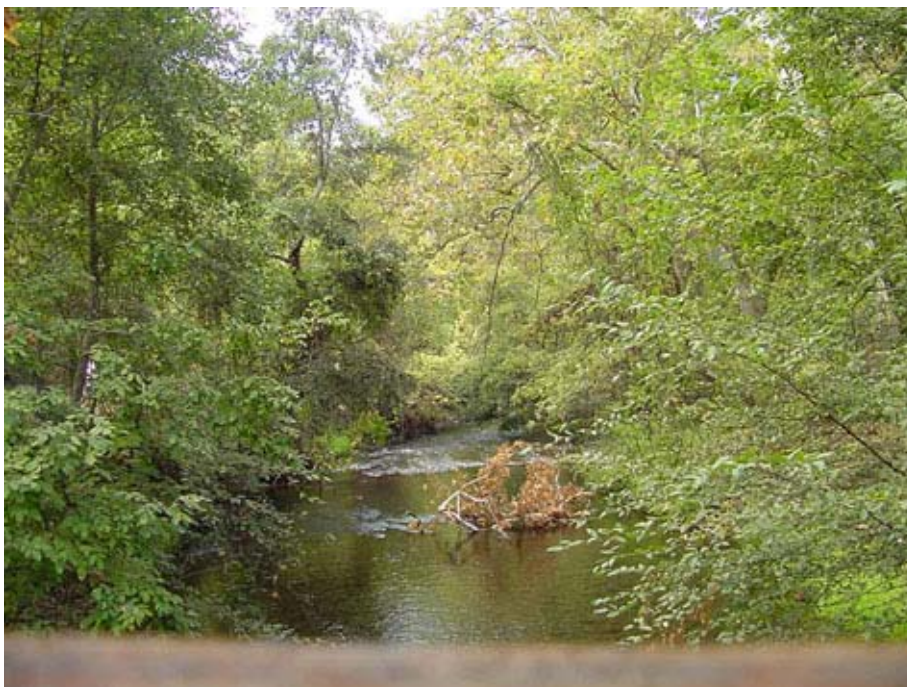
On October 14, 2004, an inspection was made of the Big Chico Creek channel. The project channel begins at the Big Chico Creek Control Structure and extends 22.0 miles downstream to Big Chico Creek's confluence with the Sacramento River. Only 15 miles could be inspected due to limited access. The views of the channel are primarily at road crossings. The photos on the following pages are typical of, but do not show all of the growth in the channel. Heavy amounts of vegetation exist along both banks of this channel. Vines extend across the channel at various locations. Little or no maintenance has been performed for the past several years. Thinning and removal of vegetation upstream of Manzanita Road and removal of snags on the right bank below the extension of Forest Avenue needs to be done before flood season.

SACRAMENTO RIVER AND TRIBUTARIES

Big Chico Creek



Upstream from the bridge near Forest Avenue, heavy growth along both banks.



**Downstream from the bridge near Forest Avenue,
heavy growth along both banks.**

SACRAMENTO RIVER AND TRIBUTARIES

Big Chico Creek



Upstream from Highway 99, heavy growth along both banks.



Downstream from Highway 99, dense vegetation in channel.

SACRAMENTO RIVER AND TRIBUTARIES

Big Chico Creek



Downstream from Esplanade, heavy growth on both banks.



Upstream from Chico State University, heavy growth on both banks.

SACRAMENTO RIVER AND TRIBUTARIES

Big Chico Creek



Downstream from Highway 32, heavy growth on both banks.



Upstream Highway 32, tree blocking the channel.

SACRAMENTO RIVER AND TRIBUTARIES

Big Chico Creek



Upstream at Rose, heavy growth and dense vegetation in the channel and along both banks.



Upstream at confluence and River Road bridge.

SACRAMENTO RIVER AND TRIBUTARIES

Maintained by State of California

LINDO CHANNEL AND SANDY GULCH

On October 13, 2004, an inspection was made of Lindo Channel and Sandy Gulch. The project channel begins at the Lindo Channel Diversion Structure and extends downstream 13.0 miles to the channel's confluence with Big Chico Creek. Only 10.0 miles could be inspected due to limited access. The views of the channel are primarily at road crossings. The photos on the following pages are typical of, but do not show all of the growth in the channel. Located by Mangrove on the right bank, there has been damage due to bikes or motorcycles. The portion of the channel from Manzanita Avenue to Big Chico Creek has heavy vegetation along both banks, but the channel is clear. Small growth in channel should be removed.

SACRAMENTO RIVER AND TRIBUTARIES

Lindo Channel



Downstream from the Lindo Channel Diversion structure.



Upstream from Manzanita Avenue.

SACRAMENTO RIVER AND TRIBUTARIES

Lindo Channel



Upstream from the bike path bridge at the extension of Madrone Avenue.



Upstream at Mariposa.

SACRAMENTO RIVER AND TRIBUTARIES

Lindo Channel



**Downstream from Mangrove, the channel
and motorcycle damage on left bank.**



Downstream from Mangrove, motorcycle damage on left bank.

SACRAMENTO RIVER AND TRIBUTARIES

Lindo Channel



Downstream from Esplanade.



Upstream from Nord Avenue, Highway 32.

SACRAMENTO RIVER AND TRIBUTARIES

Sandy Gulch



Downstream from Oak Avenue.



Upstream from Grape Way.

SACRAMENTO RIVER AND TRIBUTARIES

Maintained by the City of Chico

LITTLE CHICO CREEK

On October 12, 2005 an inspection was made of the Little Chico Creek channel. The project channel begins at the Little Chico Creek Control and Weir Structure and extends downstream for 18.0 miles to Alberton Road. Only 12.0 miles could be inspected due to limited access. The views of the channel are primarily at road crossings. The photos on the following pages are typical of, but do not show all of the growth in the channel. Growth between the control structure and Lone Pine Avenue is moderate to heavy along both banks, but channel is clear. Selective thinning and fallen tree removal should be done prior to next flood season.

SACRAMENTO RIVER AND TRIBUTARIES

Little Chico Creek



Downstream from the control structure, moderate growth in the channel.



Downstream from Bruce Road.

SACRAMENTO RIVER AND TRIBUTARIES

Little Chico Creek



Downstream from Forest Avenue.



Downstream from Highway 99.

SACRAMENTO RIVER AND TRIBUTARIES

Little Chico Creek



Upstream from Boucher Street. Dense growth on both banks.



Upstream from Mill Street. Dense growth on both banks.

SACRAMENTO RIVER AND TRIBUTARIES

Little Chico Creek



Downstream from Olive Street.



Upstream from Chestnut Street. Heavy overhead growth.

SACRAMENTO RIVER AND TRIBUTARIES

Little Chico Creek



Upstream from Crouch Avenue.



**Upstream from Alberton Avenue.
Scouring on left bank and in channel.**

CHAPTER II

PROJECT CHANNELS INSPECTED ON THE TRUCKEE RIVER AND THE FAIRFIELD VICINITY STREAMS

PLACER COUNTY
Maintained by Placer County

TRUCKEE RIVER

On November 2, 2004 an inspection was made of the Truckee River channel. The project channel begins at the Lake Tahoe Outlet Works and extends downstream for 0.6 mile. The entire 0.6-mile was inspected. The photos on the following pages are typical views of the channel. The channel is clear of vegetation growth and obstructions. Placer County has a good maintenance program.

PLACER COUNTY

Truckee River



Upstream from Highway 89 toward the outlet structure.



Downstream from Highway 89.

PLACER COUNTY

Truckee River



Upstream from the bike bridge, 1,000 feet downstream of the Lake Tahoe outlet structure.



Downstream from the bike bridge.

PLACER COUNTY

Truckee River



Upstream from the Tahoe City lumber yard.



**Downstream from the Tahoe City lumber yard,
towards the downstream limits.**

**SACRAMENTO RIVER AND TRIBUTARIES
FAIRFIELD VACINITY STREAMS
Maintained by Fairfield-Suisun Sewer District**

McCOY CREEK

On October 29, 2004 an inspection was made of the McCoy Creek channel. The project channel begins at Prosperity Lane and extends downstream 1.22 miles to McCoy Creeks' confluence with Buffer Channel. The entire 1.22 miles were inspected. The views of the channel are primarily at road crossings. The photos on the following pages are typical of, but do not show all the growth in the channel. Vegetation is minimal and should not affect the flow. The patrol roads should be sterilized prior to flood season. The maintaining agency has an excellent maintenance program.

**SACRAMENTO RIVER AND TRIBUTARIES
FAIRFIELD VACINITY STREAMS
McCoy Creek**



Downstream from Bella Vista Drive.



Downstream from Emperor Drive.

**SACRAMENTO RIVER AND TRIBUTARIES
FAIRFIELD VACINITY STREAMS
McCoy Creek**



Upstream from Pintail Avenue.



Upstream from Anderson Drive.

**SACRAMENTO RIVER AND TRIBUTARIES
FAIRFIELD VACINITY STREAMS
Maintained by Fairfield-Suisun Sewer District**

LAUREL CREEK

On October 29, 1004 an inspection was made of the Laurel Creek Channel. The project channel begins at Gulf Drive and extends downstream 2.78 miles to Laurel Creek's confluence with McCoy Creek. The entire 2.78 miles were inspected. The views of the channel are primarily at road crossings. The photos on the following pages are typical of, but do not show all the growth in the channel. Vegetation is minimal in the channel and does not affect the flow, however, new growth should be removed or sprayed. The maintaining agency has an excellent maintenance program.

**SACRAMENTO RIVER AND TRIBUTARIES
FAIRFIELD VACINITY STREAMS
Laurel Creek**



Upstream from Cement Hill Road towards Gulf Drive.



Downstream from Cement Hill Road.

**SACRAMENTO RIVER AND TRIBUTARIES
FAIRFIELD VACINITY STREAMS
Laurel Creek**



Downstream from Meadowlark Drive.



Downstream from Blossom Road.

**SACRAMENTO RIVER AND TRIBUTARIES
FAIRFIELD VACINITY STREAMS
Laurel Creek**



**Downstream from Matthew Road towards
Railroad culvert under crossing.**



Downstream from Worley Road towards the confluence with McCoy Creek.

**SACRAMENTO RIVER AND TRIBUTARIES
FAIRFIELD VACINITY STREAMS
Maintained by Fairfield-Suisun Sewer District**

UNION AVENUE DIVERSION

On October 29, 2004, an inspection was made of the Union Avenue Diversion Channel. The project channel begins at North Texas Street and extends downstream 0.73 mile to Gulf Drive. The entire 0.73-mile was inspected. The views of the channel are primarily at road crossings. The photos on the following pages are typical of, but do not show all the growth in the channel. Vegetation is minimal in the channel and does not affect the flow, however, new growth should be removed or sprayed. The maintaining agency has an excellent maintenance program.

**SACRAMENTO RIVER AND TRIBUTARIES
FAIRFIELD VACINITY STREAMS
Union Avenue Diversion**



Downstream from North Texas Street.



Downstream from Camrose Avenue.

**SACRAMENTO RIVER AND TRIBUTARIES
FAIRFIELD VACINITY STREAMS
Union Avenue Diversion**



Downstream from Dover Avenue.



Upstream from the downstream limits at Gulf Drive.

CHAPTER III

PROJECT CHANNELS INSPECTED ON THE SAN JOAQUIN RIVER AND TRIBUTARIES

SAN JOAQUIN RIVER AND TRIBUTARIES
MERCED STREAM GROUP
Maintained by the Merced Irrigation District for Merced County

BEAR CREEK

On November 2, 2004 an inspection was made of Bear Creek. The project channel begins 2.0 miles upstream of the confluence with Burns Creek and extends downstream 21.0 miles to Bert Crane Road. Only 15 miles could be inspected due to limited access. The views of the channel are primarily at road crossings. The photos on the following pages are typical of, but do not show, all the growth in the channel. Moderate to heavy growth exists along both banks from the confluence with Burns Creek to approximately the Merced City limits. From Franklin Road to Dickerson Ferry Road, the channel and banks are overgrown to the extent that moderate flows could be adversely affected causing bank overflow. A clearing program should be implemented immediately. However, The California Department of Fish and Game has stopped the channel-clearing program. Both agencies are working to resolve the issues and continue channel maintenance.

**SAN JOAQUIN RIVER AND TRIBUTARIES
MERCED STREAM GROUP
Bear Creek**



Downstream of the Bonner Road bridge.



Downstream from Arboleda Drive.

**SAN JOAQUIN RIVER AND TRIBUTARIES
MERCED STREAM GROUP
Bear Creek**



Upstream from Kirby Road.



Bank washing away downstream from Kirby Road.

**SAN JOAQUIN RIVER AND TRIBUTARIES
MERCED STREAM GROUP
Bear Creek**



Downstream from McKee Road.



Upstream from "R" Street.

**SAN JOAQUIN RIVER AND TRIBUTARIES
MERCED STREAM GROUP
Bear Creek**



Upstream from "16" Street.



Downstream from Highway 99.

**SAN JOAQUIN RIVER AND TRIBUTARIES
MERCED STREAM GROUP
Bear Creek**



Downstream from Franklin Road.



Downstream from Highway 140.

**SAN JOAQUIN RIVER AND TRIBUTARIES
MERCED STREAM GROUP
Bear Creek**



Upstream from Gurr Road.



Upstream from Dickenson Ferry Road.

**SAN JOAQUIN RIVER AND TRIBUTARIES
MERCED STREAM GROUP**
Maintained by the Merced Irrigation District for Merced County

BLACK RASCAL CREEK

On November 4, 2004 an inspection was made of Black Rascal Creek Channel. The project channel begins at Crocker Dam and extends downstream 6.5 miles to Black Rascal Creek's confluence with Bear Creek. Only 2.8 miles could be inspected. Views of the channel are primarily at road crossings. The photos on the following pages are typical of, but do not show all the growth in the channel. The wild growth should be cleared to allow proper design flow. However, the California Department of Fish and Game has stopped the channel-clearing program. Both agencies are working to resolve the issues and continue channel maintenance.

**SAN JOAQUIN RIVER AND TRIBUTARIES
MERCED STREAM GROUP
Black Rascal Creek**



Downstream from the Crocker Dam.



Downstream from Franklin Road.

**SAN JOAQUIN RIVER AND TRIBUTARIES
MERCED STREAM GROUP
Black Rascal Creek**



Downstream from Gurr Road.



Upstream from Highway 140.

**SAN JOAQUIN RIVER AND TRIBUTARIES
MERCED STREAM GROUP
Black Rascal Creek**



Downstream from Quinley Avenue.



Downstream from Oak Avenue.

**SAN JOAQUIN RIVER AND TRIBUTARIES
MERCED STREAM GROUP
Maintained by Merced Irrigation District for Merced County**

BURNS CREEK

On November 3, 2004 an inspection was made of Burns Creek. The project channel begins 2.0 miles upstream of Burns Creek's confluence with Bear Creek and extends 2.0 miles downstream to the confluence. Only 1.0 mile of channel could be inspected due to inaccessibility. The photos on the following pages are typical of, but do not show all the growth in the channel. There appears to have been little maintenance performed in the past years. Merced County should mechanically clear and spray the channel. However, the California Department of Fish and Game has stopped the channel-clearing program. Both agencies are working to resolve the issues and continue channel maintenance.

**SAN JOAQUIN RIVER AND TRIBUTARIES
MERCED STREAM GROUP
Burns Creek**



Downstream from Bonner Road.



Upstream from the low water crossing.

SAN JOAQUIN RIVER AND TRIBUTARIES
MERCED STREAM GROUP
Maintained by the Merced Irrigation District for Merced County

MARIPOSA CREEK/DUCK SLOUGH

On November 3, 2004 an inspection was made of Mariposa Creek/Duck Slough channel. The project channel begins 4.0 miles upstream of Fresno Road, and extends downstream for 16.5 miles to Highway 59. Only 6.2 miles could be inspected due to limited access. The views of the channel are primarily at road crossings. The photos on the following pages are typical of, but do not show all the growth in the channel. The wild growth should be cleared to allow proper design flow. However, the California Department of Fish and Game has stopped the channel-clearing program. Both agencies are working to resolve the issues and continue channel maintenance.

**SAN JOAQUIN RIVER AND TRIBUTARIES
MERCED STREAM GROUP
Mariposa Creek/Duck Slough**



Downstream from White Rock Road.



Downstream from Fresno Road.

**SAN JOAQUIN RIVER AND TRIBUTARIES
MERCED STREAM GROUP
Mariposa Creek/Duck Slough**



Downstream from Santa Fe Avenue.



Upstream from Burchell Avenue.

**SAN JOAQUIN RIVER AND TRIBUTARIES
MERCED STREAM GROUP
Mariposa Creek/Duck Slough**



Downstream from Plainsburg Road.



Downstream from Whealan Road.

**SAN JOAQUIN RIVER AND TRIBUTARIES
MERCED STREAM GROUP
Mariposa Creek/Duck Slough**



Downstream from Healy Road.



Upstream from Highway 59.

SAN JOAQUIN RIVER AND TRIBUTARIES
MERCED STREAM GROUP
Maintained by the Merced Irrigation District for Merced County

MILES CREEK

On November 4, 2004 an inspection was made of Miles Creek channel. The project channel begins 1.5 miles upstream of Childs Avenue and extends downstream for 12.0 miles to Highway 59. Only 5.6 miles of the channel could be inspected due to limited access. The views of the channel are primarily at road crossings. The photos on the following pages are typical of, but do not show all the growth in the channel. There is intermittent heavy brush growth with garbage backed up against the growth throughout the system. The channel is constricted by trees and brush from Riley Road to the Miles Creek Dam and should be cleared before next flood season. However, the California Department of Fish and Game has stopped the channel-clearing program. Both agencies are working to resolve the issues and continue channel maintenance.

**SAN JOAQUIN RIVER AND TRIBUTARIES
MERCED STREAM GROUP
Miles Creek**



Upstream from Childs Avenue.



Downstream from Santa Fe Avenue.

**SAN JOAQUIN RIVER AND TRIBUTARIES
MERCED STREAM GROUP
Miles Creek**



Downstream from Plainsburg Road.



Downstream from Gerard Avenue.

**SAN JOAQUIN RIVER AND TRIBUTARIES
MERCED STREAM GROUP
Miles Creek**



Downstream from Whealan Road



**Downstream from Arboleda Drive.
Notice the blackberries on the right bank.**

**SAN JOAQUIN RIVER AND TRIBUTARIES
MERCED STREAM GROUP
Miles Creek**



Downstream from Miles Road.



Downstream from Healy Road.

**SAN JOAQUIN RIVER AND TRIBUTARIES
MERCED STREAM GROUP
Miles Creek**



Downstream from Tyler Road.



**Upstream from Highway 59.
The channel is overgrown with wild growth.**

**SAN JOAQUIN RIVER AND TRIBUTARIES
MERCED STREAM GROUP**
Maintained by the Merced Irrigation District for Merced County

OWENS CREEK

On November 5, 2004 an inspection was made of Owens Creek channel. The project channel begins at Cunningham Road and extends downstream for 2.0 miles to Owens Creek Diversion channel. Only 1.2 miles of the channel could be inspected due to limited access. Major tule growth was found in the channel. Tules should be sprayed to control growth. However, the California Department of Fish and Game has stopped the channel-clearing program. Both agencies are working to resolve the issues and continue channel maintenance.

**SAN JOAQUIN RIVER AND TRIBUTARIES
MERCED STREAM GROUP
Owens Creek**



Downstream from Cunningham Road.



**Upstream from Childs Avenue.
Note the tule growth.**

**SAN JOAQUIN RIVER AND TRIBUTARIES
MERCED STREAM GROUP
Owens Creek**



Upstream from the extension of Mission Avenue.

SAN JOAQUIN RIVER AND TRIBUTARIES

MERCED STREAM GROUP

Maintained by the Madera County Flood Control and Water Conservation Agency

ASH SLOUGH

On November 16, 2004 an inspection was made Ash Slough channel. The project channel begins at the Ash and Berenda Slough Bifurcation Structure and extends downstream for 19.0 miles to Avenue 22. Only 10.3 miles could be inspected due to limited access. The views of the channel are primarily at road crossings. The photos on the following pages are typical of, but do not show all the growth in the channel. There are some willows and bamboo on the banks, but the channel appears to be in satisfactory condition. There has been no apparent maintenance in recent years. The new growth needs to be removed and sprayed.

**SAN JOAQUIN RIVER AND TRIBUTARIES
MERCED STREAM GROUP
Ash Slough**



Downstream from Ash Slough bifurcation structure.



Upstream from Santa Fe Drive.

**SAN JOAQUIN RIVER AND TRIBUTARIES
MERCED STREAM GROUP
Ash Slough**



Upstream from Road 19.



Upstream from Road 13.

**SAN JOAQUIN RIVER AND TRIBUTARIES
MERCED STREAM GROUP
Ash Slough**



Upstream from Avenue 25.



Upstream from Avenue 23½.

**SAN JOAQUIN RIVER AND TRIBUTARIES
MERCED STREAM GROUP
Ash Slough**



Downstream from Highway 152



Upstream from Road 9.

SAN JOAQUIN RIVER AND TRIBUTARIES

MERCED STREAM GROUP

Maintained by the Madera County Flood Control and Water Conservation Agency

BERENDA SLOUGH

On November 17, 2004 an inspection was made of Berenda Slough channel. The project channel begins at the Ash and Berenda Slough Bifurcation Structure and extends downstream for 18.5 miles. Only 13.0 miles could be inspected due to limited access. The views of the channel are primarily at road crossings. The photos on the following pages are typical of, but do not show all the growth in the channel. Dense wild growth is chocking the channel 200 yards from the structure. The channel has areas of willow and bamboo growth that should be cleared. There appears to have been little to no maintenance performed in the past several years. The wild growth should be cleared to allow proper design flow.

SAN JOAQUIN RIVER AND TRIBUTARIES

Berenda Slough



Downstream from the Berenda Slough bifurcation structure.



Upstream from Santa Fe Drive.

SAN JOAQUIN RIVER AND TRIBUTARIES

Berenda Slough



Upstream from Avenue 26.



Downstream from Road 19.

SAN JOAQUIN RIVER AND TRIBUTARIES

Berenda Slough



Downstream from 22½ Avenue low water crossing.



Downstream Road 14.

SAN JOAQUIN RIVER AND TRIBUTARIES

Berenda Slough



Upstream from Avenue 20. Trees and wild growth in channel.



Upstream Avenue 20.

SAN JOAQUIN RIVER AND TRIBUTARIES

Maintained by the Madera County Flood Control and Water Conservation Agency

CHOWCHILLA RIVER

On November 18, 2004 an inspection was made of the Chowchilla River channel. The project channel begins at Buchanan Dam and extends downstream for 28.5 miles to Schultz Road. Only 18.4 miles could be inspected due to limited access. The views of the channel are primarily at road crossings. The photos on the following pages are typical of, but do not show all the growth in the channel. The channel east of Highway 99 is through pastureland with trees immediately upstream of Road 19 (White Rock Road) posing the only constriction. From Highway 99 downstream there are areas of heavy brush and tree growth that should be cleared. Upstream from Avenue 26, wild growth has been partially removed about 100 feet away from bridge. Downstream from Avenue 26, the channel is cleared by livestock grazing. Where there is livestock grazing, fences have been put up across the channel and other obstructions placed in the channel and along the banks. These areas should be cleared to allow the water to flow without collecting debris. Down from Avenue 25, garbage needs to be removed from the channel. The wild growth should be cleared to allow proper design flow.

SAN JOAQUIN RIVER AND TRIBUTARIES

Chowchilla River



Downstream from Buchanan Dam.



One mile downstream from Buchanan Dam.

SAN JOAQUIN RIVER AND TRIBUTARIES

Chowchilla River



Downstream from Santa Fe Drive.



Upstream from White Rock Road.

SAN JOAQUIN RIVER AND TRIBUTARIES

Chowchilla River



Downstream from Road 15 (Minturn Road).



Downstream low water crossing Road 27.

SAN JOAQUIN RIVER AND TRIBUTARIES

Chowchilla River



Downstream Road 13 (Vista Avenue).



**Upstream Road 11.
Fencing across the channel.**

SAN JOAQUIN RIVER AND TRIBUTARIES

Chowchilla River



Downstream from Road 9 (Bliss Road)



Upstream of Avenue 25 (Washington Road).

SAN JOAQUIN RIVER AND TRIBUTARIES

Chowchilla River



Downstream from Avenue 25, showing garbage in channel.



Upstream from Schultz Road.

SAN JOAQUIN RIVER AND TRIBUTARIES

Maintained by the Madera County Flood Control and Water Conservation Agency

FRESNO RIVER

On November 18, 2004 an inspection was made of the Fresno River channel. The project channel begins at Hidden Dam and extends downstream for 13.0 miles to Road 18½. Only 9.0 miles could be inspected due to limited access. The views of the channel are primarily at road crossings. The photos on the following pages are typical of, but do not show all the growth in the channel. There is some small willow growth in the channel but the maintaining agency does a good job of discing it annually so that the growth is kept under control. The District has an excellent maintenance program.

SAN JOAQUIN RIVER AND TRIBUTARIES

Fresno River



Downstream from Road 603 below Hidden Dam.



Downstream from Cleveland Avenue.

SAN JOAQUIN RIVER AND TRIBUTARIES

Fresno River



Downstream from "D" street, looking at the Gateway bridge.



Downstream from Road 23.

SAN JOAQUIN RIVER AND TRIBUTARIES

Fresno River



**Downstream from Road 20.
Bamboo and small trees growing in the channel.**



Upstream from the downstream boundary.

SAN JOAQUIN RIVER AND TRIBUTARIES
Maintained by the San Joaquin County Flood Control District

NORTH LITTLEJOHN CREEK

On November 29, 2004 an inspection was made of the North Littlejohn Creek channel. The project channel begins at its bifurcation with South Littlejohn Creek and extends downstream for 18.0 miles to North Littlejohn Creek's confluence with French Camp Slough. Only about 12.5 miles could be inspected due to limited access. The views of the channel are primarily at road crossings. The photos on the following pages are typical of, but do not show all the growth in the channel. There are areas, especially at the upper end, that have moderate tree growth in and around the channel. Wild growth in channel should be cleared.

SAN JOAQUIN RIVER AND TRIBUTARIES

North Littlejohn Creek



Upstream at the bifurcation of North Littlejohn Creek and South Littlejohn Creek.



Structure at Hewit Lane.

SAN JOAQUIN RIVER AND TRIBUTARIES

North Littlejohn Creek



**Downstream from Van Allen Road,
dense vegetation in channel.**



Upstream from Mariposa Road.

SAN JOAQUIN RIVER AND TRIBUTARIES
Maintained by the San Joaquin County Flood Control District

DUCK CREEK DIVERSION CHANNEL

On November 30, 2004 an inspection was made of the Duck Creek Diversion channel. The project channel begins at the Duck Creek Diversion Weir and Control Structure and extends downstream for 5,000 feet to its confluence with South Littlejohn Creek. All 5,000 feet were inspected. The views of the channel are primarily at road crossings. The channel is clear of any growth, there is a pipe exposed on the right bank, upstream from Highway 4. The District has a good maintenance program.

SAN JOAQUIN RIVER AND TRIBUTARIES

Duck Creek Diversion Channel



Downstream from the diversion structure.



Exposed pipe on the right bank, upstream from Highway 4.

SAN JOAQUIN RIVER AND TRIBUTARIES

Duck Creek Diversion Channel



Downstream from Highway 4.



Confluence of Duck Creek and Littlejohn Creek.

SAN JOAQUIN RIVER AND TRIBUTARIES
Maintained by the San Joaquin County Flood Control District

SOUTH LITTLEJOHN CREEK

On November 30, 2004 an inspection was made of the South Littlejohn Creek channel. The project channel begins at Farmington Dam and extends downstream for 21.7 miles to South Littlejohn Creek's confluence with Lone Tree Creek. Only about 12.5 miles could be inspected due to limited access. The views of the channel are primarily at road crossings. The photos on the following pages are typical of, but do not show all the growth in the channel. The channel is clear, but from Jack Tone Rd. to Hwy. 99 there are large amounts of water grass in certain areas. Water grass should be sprayed.

SAN JOAQUIN RIVER AND TRIBUTARIES

South Littlejohn Creek



Downstream from the confluence with Duck Creek.



Downstream from Stanley Road.

SAN JOAQUIN RIVER AND TRIBUTARIES

South Littlejohn Creek



Downstream from Van Allen Road.



Downstream from Mariposa Road.

SAN JOAQUIN RIVER AND TRIBUTARIES

South Littlejohn Creek



Upstream from Jack Tone Road.



Upstream from Austin Road.

SAN JOAQUIN RIVER AND TRIBUTARIES
Maintained by the San Joaquin County Flood Control District

SOUTH LITTLEJOHN CREEK, NORTH BRANCH

On November 29, 2004 an inspection was made of the South Littlejohn Creek channel. The project channel begins at Farmington Dam and extends downstream for 21.7 miles to South Littlejohn Creek's confluence with Lone Tree Creek. Only about 17.0 miles could be inspected due to limited access. The views of the channel are primarily at road crossings. The photos on the following pages are typical of, but do not show all the growth in the channel. The channel is clear, but from Jack Tone Rd. to Hwy. 99 there are large amounts of water grass in certain areas. Water grass should be sprayed.

SAN JOAQUIN RIVER AND TRIBUTARIES

South Littlejohn Creek – North Branch



Downstream from the North and South Littlejohn split.



Upstream Jack Tone Road.

SAN JOAQUIN RIVER AND TRIBUTARIES

South Littlejohn Creek – North Branch



Upstream from Austin Road.

CHANNEL INDEX

| Inspection Date | Maintaining Agency | Channel & Flow Capacity | Remarks | Action | Page |
|-----------------|------------------------------------|---|---|---|------|
| 10/22/04 | Adin Community Service District | Ash Creek | Excellent Maintenance Program | No action needed at this time. | 6 |
| 10/22/04 | Adin Community Service District | Dry Creek | Moderate to heavy willow growth in channel | Remove or spray willow | 10 |
| 10/15/04 | Tehama County | McClure Creek | Satisfactory Maintenance Program | No action needed at this time. | 14 |
| 10/15/04 | Tehama County | Salt Creek | Poor Maintenance Dense Vegetation | Develop a Maintenance Program | 18 |
| 10/14/04 | City of Chico | Big Chico Creek (17,500 cfs) | Dense Vegetation along banks | Control wild growth | 22 |
| 10/13/04 | Department of Water Resources | Lindo Channel (14,500 cfs) | Small wild growth in channel | Control wild growth | 28 |
| 10/13/01 | Department of Water Resources | Sandy Gulch (6,000 cfs) | Dense wild growth along banks | Control wild growth | 33 |
| 10/12/04 | City of Chico | Little Chico Creek (13,000 cfs) | Dense to moderate wild growth | Selective thinning and fallen trees removed | 34 |
| 11/2/04 | Placer County | Truckee River (6,000 cfs) | Clear Channel | No action needed at this time | 42 |
| 10/29/04 | Fairfield Sewer District | McCoy Creek (2,000 cfs) | Clear Channel | Excellent Maintenance Program | 46 |
| 10/29/04 | Fairfield Sewer District | Laurel Creek (3,700 cfs) | Minimal vegetation | Remove small growth | 50 |
| 10/29/04 | Fairfield Sewer District | Union Avenue Diversion (2,600 cfs) | Minimal vegetation | Remove small growth | 54 |
| 11/2/04 | Merced Irrigation District | Bear Creek (3,700 cfs) | Moderate to heavy wild growth | A clearing program should be implemented | 58 |
| 11/4/04 | Merced Irrigation District | Black Rascal Creek (3,900 cfs) | Moderate wild growth | Control wild growth | 66 |
| 11/3/04 | Merced Irrigation District. | Burns Creek (2,000 cfs) | Little maintenance performed | District should clear & maintenance spray channel | 70 |
| 11/3/04 | Merced Irrigation District | Mariposa Creek (2,250 cfs) | Moderate wild growth in channel | Clear to allow proper design flow | 72 |
| 11/4/04 | Merced Irrigation District | Miles Creek (1,000 cfs) | Intermittent dense brush growth throughout the system | District should clear & maintenance spray channel | 78 |
| 11/5/04 | Merced Irrigation District | Owens Creek (400 cfs) | Minor tule growth | Tule should be sprayed | 84 |
| 11/16/04 | Madera County | Ash Slough (31,000 cfs) | Minor willow & bamboo in channel | Remove new growth | 88 |
| 11/17/04 | Madera County | Berenda Slough (6,000 cfs) | Dense wild growth in channel | Remove wild growth | 94 |
| 11/18/04 | Madera County | Chowchilla River (21,575 cfs) | Dense brush downstream of Hwy 99 | Clear brush | 100 |
| 11/18/04 | Madera County | Fresno River (23,000 cfs) | Small willow new growth | Control new growth | 108 |
| 11/29/04 | San Joaquin Flood Control District | N. Littlejohn Creek (8,000 cfs) | Moderate tree growth | Control growth | 112 |
| 11/30/04 | San Joaquin Flood Control District | Duck Creek Diversion Channel (250 cfs) | Clear Channel | Good Maintenance Program | 116 |
| 11/30/04 | San Joaquin Flood Control District | South Littlejohn Creek (8,000 cfs) | Water grass downstream of Hwy. 99 | Spray water grass | 120 |
| 11/29/04 | San Joaquin Flood Control District | South Littlejohn Creek North (16,000 cfs) | The channel is overall clear | No action needed at this time | 124 |